

AN EFFECTIVE DUMP LOAD FOR THREE-PHASE AUTONOMOUS MICRO-GRIDS

I. ȘERBAN¹ C. MARINESCU¹

Abstract: *This paper presents a simple and reliable solution for frequency regulation in autonomous Hybrid Power System (HPS). The study deals with rated powers of tens of kilowatts, where the most usual frequency regulation methods are those based on electronic power control, without any mechanical regulation on generators part. The paper focuses on an optimized three-phase dump load, whit low current harmonics injection. For the proposed configurations simulation were performed by using Matlab/Simulink environment.*

Key words: *Hybrid Power System, Micro-grid, Dump Load.*

¹ Dept. of Electrical Engineering, Transilvania University of Braşov.